

Abstract of the Invention

A method of detecting the format of received information by measuring the time period during which information being received have a power that is at or above a defined threshold. The measured time period and the information rate of the received information are then used to determine an estimate information size value of the received information. The estimated information size value is then applied to an algorithm that determines the format of the received information. Therefore, the format of received information can be detected without the use of TFCI information.

Parameter	Unit	Value
Initial concentration	mol/L	0.01
Initial pH		7.0
Temperature	°C	25
Time	min	0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 120, 140, 160, 180, 200, 220, 240, 260, 280, 300, 320, 340, 360, 380, 400, 420, 440, 460, 480, 500, 520, 540, 560, 580, 600, 620, 640, 660, 680, 700, 720, 740, 760, 780, 800, 820, 840, 860, 880, 900, 920, 940, 960, 980, 1000
Concentration	mol/L	0.01, 0.005, 0.0025, 0.00125, 0.000625, 0.0003125, 0.00015625, 0.000078125, 0.0000390625, 0.00001953125, 0.000009765625, 0.0000048828125, 0.00000244140625, 0.000001220703125, 0.0000006103515625, 0.00000030517578125, 0.000000152587890625, 0.0000000762939453125, 0.00000003814697265625, 0.000000019073486328125, 0.0000000095367431640625, 0.00000000476837158203125, 0.000000002384185791015625, 0.0000000011920928955078125, 0.00000000059604644775390625, 0.000000000298023223876953125, 0.0000000001490116119384765625, 0.00000000007450580596923828125, 0.000000000037252902984619140625, 0.0000000000186264514923095703125, 0.00000000000931322574615478515625, 0.000000000004656612873077392578125, 0.0000000000023283064365386962890625, 0.00000000000116415321826934814453125, 0.000000000000582076609134674072265625, 0.0000000000002910383045673370361328125, 0.00000000000014551915228366851806640625, 0.000000000000072759576141834259033203125, 0.0000000000000363797880709171295166015625, 0.00000000000001818989403545856475830078125, 0.000000000000009094947017729282379150390625, 0.0000000000000045474735088646411895751953125, 0.00000000000000227373675443232059478759765625, 0.000000000000001136868377216160297393798828125, 0.0000000000000005684341886080801486968994140625, 0.00000000000000028421709430404007434844970703125, 0.000000000000000142108547152020037174224853515625, 0.0000000000000000710542735760100185871124267578125, 0.00000000000000003552713678800500929355621337890625, 0.000000000000000017763568394002504646778106689453125, 0.0000000000000000088817841970012523233890533447265625, 0.00000000000000000444089209850062616169452667236328125, 0.000000000000000002220446049250313080847263336181640625, 0.0000000000000000011102230246251565404236316680908203125, 0.00000000000000000055511151231257827021181583404541015625, 0.000000000000000000277555756156289135105907917022705078125, 0.0000000000000000001387778780781445675529539585113525390625, 0.00000000000000000006938893903907228377647697925567626953125, 0.000000000000000000034694469519536141888238489627838134765625, 0.0000000000000000000173472347597680709441192448139190673828125, 0.00000000000000000000867361737988403547205962240695953369140625, 0.000000000000000000004336808689942017736029811203479766845703125, 0.0000000000000000000021684043449710088680149056017398834228515625, 0.00000000000000000000108420217248550443400745280086994171142578125, 0.000000000000000000000542101086242752217003726400434970855712890625, 0.0000000000000000000002710505431213761085018632002174854278564453125, 0.00000000000000000000013552527156068805425093160010874271392822265625, 0.000000000000000000000067762635780344027125465800054371356964111328125, 0.0000000000000000000000338813178901720135627329000271856784820556640625, 0.00000000000000000000001694065894508600678136645001359283924102783203125, 0.000000000000000000000008470329472543003390683225006796419620513916015625, 0.0000000000000000000000042351647362715016953416125033982098102569580078125, 0.00000000000000000000000211758236813575084767080625169910490512847900390625, 0.000000000000000000000001058791184067875423835403125849552452564239501953125, 0.0000000000000000000000005293955920339377119177015629224762262821197509765625, 0.00000000000000000000000026469779601696885595885078146123811314105987548828125, 0.000000000000000000000000132348898008484427979425390730619056570529937744140625, 0.0000000000000000000000000661744490042422139897126953653095282852649688720703125, 0.00000000000000000000000003308722450212110699485634768265476414263248443603515625, 0.000000000000000000000000016543612251060553497428173841327382071316242218017578125, 0.00